INTERNATIONAL SEARCH REPORT

International application No.

			PCT/US04/28890			
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : F01D 1/36						
US CL: 415/71, 80, 81, 90, 143 According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 415/25, 53.1, 53.2, 53.3, 63, 71-75, 80-82, 90, 143, 170.1, 199.1, 199.2, 226; 416/4, 176, 177						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
C. DOCT	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a		<u> </u>	Relevant to claim No.		
X ·	US 1,586,160 A (MAURON et al) 25 May 1926 (25	5.05.1926), column 1, l	ines 25-50.	1-3, 7, 15		
x	US 3,535,051 A (TURNER) 20 October 1970 (20.10.1970), column 2, lines 41-72.			1-3, 7, 15		
x	US 3,250,458 A (CALDWELL) 10 May 1966 (10.05.1966), column 2, lines 1-63.			1-5, 7, 15		
x	US 4,668,160 A (MASE et al) 26 May 1987 (26.05.1987), column 2, lines 37-60.			1-5, 7, 15		
x	US 4,732,529 A (NARITA et al) 22 March 1988 (22.03.1988), column 2, lines 64-68, column 3, lines 1-18.			1-7, 15		
x	US 2,245,035 A (HARTMAN) 10 June 1941 (10.06.1941), column 1, lines 33-55, column 2, lines 1-42.			1-3, 7, 15		
х	US 4,242,039 A (VILLARD et al) 30 December 1980 (30.12.1980), column 2, lines 43-68, column 3, lines 1-68.			1-3, 7, 15		
X 	US 5,297,926 A (NEGISHI) 29 March 1994 (29.03.1994), column 4, lines 7-24, column 5, lines 55-68, column 6, lines 1-22, figures 3, 6a-6b.			1, 8-9, 13 		
Y				14		
Further	documents are listed in the continuation of Box C.	See patent f	family annex.			
* S _i	pecial categories of cited documents:			national filing date or priority tion but cited to understand the		
A document defining the general state of the art which is not considered to be of particular relevance		principle or theory underlying the in- "X" document of particular relevance; the		ition		
•	plication or patent published on or after the international filing date	considered no		d to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is				
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such documents, such combination being obvious to a person skilled in the art				
priority d	published prior to the international filing date but later than the ate claimed	*&* document member of the same patent family				
Date of the actual completion of the international search 15 May 2005 (15.05.2005)		Date of mailing of the international search report 08 JUN 2005				
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Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Authorized officer Christopher Verdier (700) 200 200				
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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
		Relevant to claim No. 1, 8-9			